

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: W H H Lyons Operator Well No.: No. 3
LOCATION: Elevation: 1310 Quadrangle: Folsom
District: McClellan County: Doddridge
Latitude: 5830 Feet South of 39° Deg. 25' Min. Sec.
Longitude 3180 Feet West of 80° Deg. 32' Min. 30" Sec.

Company: Cobham Gas, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P. O. Box 179				
St. Marys, WV 26170				
Agent: Loren Bagley	9 5/8"	336.35	336.35	To surface
Inspector: Mike Underwood				
Date Permit Issued: <u>05/08/06</u>	7"	1482.09	1482.09	To surface
Date Well Work Commenced:				
Date Well Work Completed: <u>7/10/06</u>				
Verbal Plugging:	4.5"		3229.30	45 sacks
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig				
Total Depth (feet): <u>3410'</u>				
Fresh Water Depth (ft.): <u>280'</u>				
Salt Water Depth (ft.): <u>2502'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.):				

OPEN FLOW DATA

Producing formation 4th Sand Pay zone depth (ft) 3114-3117
Gas: Initial open flow show MCF/d Oil: Initial open flow Bbl/d
Final open flow 135 MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure psig (surface pressure) after Hours

Second producing formation Gordon Sand Pay zone depth (ft) 3041-3093
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow w/above MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure 35 psig (surface pressure) after 26 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed:

By:

Date:

Loren I. Bagley
L.I.B.
11-16-07

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APR 01 2015

WV Department of
Environmental Protection

Stimulation:

Fourth Sand 3114-3117
Delta Foam 20,000 sand

Gordon Sand 3041-3093
Delta Foam 25,000 sand

Well Name	Lyons #3		
Elev.	1310		
Fm Name	FM TOP	FM BOT	NOTES
1st Salt	1507	1560	
2nd Salt	1812	1932	
3rd Salt	1996	2056	
Maxon	2106	2124	
Big Lime	2262	2340	
Big Injun	2346	2408	
Weir	2554	2646	
Berea	2754	2755	
Fifty Foot			
Thirty Foot	2866	2896	
Gordon Stray	2969	3002	
Gordon	3034	3096	show gas
Fourth	3108	3123	show gas
Fifth	3213	3218	
Bayard	3398	3403	

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WV Department of
Environmental Protection

DATE: March 18, 2009
API #: 47-103-02274

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: DEWHURST Operator Well No.: 64

LOCATION: Elevation: 958 Quadrangle: CENTER POINT

District: GRANT County: WETZEL
Latitude: 10500 Feet South of 39 Deg. 30 Min. Sec.
Longitude 11.200 Feet West of 80 Deg. 37 Min. Sec.

Company: TRANS ENERGY INC.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P.O. BOX 393				
ST. MARYS, WV 26170				
Agent: Loren Bagley	9 5/8	336	336	To Surface
Inspector: Mike Underwood				
Date Permit Issued:	7	2310	2310	To Surface
Date Well Work Commenced: 10/30/07				
Date Well Work Completed: 12/07/07				
Verbal Plugging:	4.5		3246	50 SKS
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet): 3471				
Fresh Water Depth (ft.): 65				
Salt Water Depth (ft.): NA				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 960,1524,1559				

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OPEN FLOW DATA

Producing formation Bayard Pay zone depth (ft) 3127-3129
Final open flow w/above MCF/d Final open flow = Bbl/d

Second producing formation Gordon Sand Pay zone depth (ft) 2810-2832
Gas: Initial open show MCF/d Oil: Initial open flow show Bbl/d
Final open flow 150 MCF/d Final open flow 3 Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure 700 psig (surface pressure) after 50 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed:

Loren E. Bagley
By: Loren E. Bagley
Date: 1-4-10

APR 05 2013
WV Department of Environmental Protection
Office of Oil and Gas

103.02274

Stimulation:
 Bayard Sand 3128-3130
 Delta Foam 25,000 sand

Gordon Sand 2316-2832
 Delta Foam 35,00 sand

Well Name	DEWHURST #64	
FM Name	FM Top	FM Bot
Thirty Foot	2610	2617
Gordon Stray		
Gordon	2810	2840 show gas
Fourth	2880	2885 show gas
Fifth	3054	3058
Bayard	3130	3140 show gas

GR 103.02274

SEP 05 2013

MAILED 09/05/13
 30

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Well name: DALLISON LUMBER INC.

Operator Well No.: L. S. HOYT 272

LOCATION: Elevation: 1427'

Quadrangle: PINE GROVE 7.5'

District: GRANT

County: WETZEL

Latitude: 11,050 Feet south of 39 Deg 37 Min 30 Sec.

Longitude: 6,350 Feet west of 80 Deg 37 Min 30 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: DAVID SCRANAGE

Permit Issued: 06/04/08

Well work Commenced: 09/19/08

Well work Completed: 10/15/08

Verbal plugging

Emission granted on:

Rotary ☒ Cable ☐ Rig

Total Depth (feet) 5096' (MD)

Fresh water depths (ft)

Salt water depths (ft)

Is coal being mined in area (Y/N) N

Coal Depths (ft): NA

* Waterflood Producer

OPEN FLOW DATA

well was drilled horizontally in Gordon
in a direction of N 25° E.

MD- 3504-5096

Producing formation Gordon Pay zone depth (ft) 3094-3114 (TVI)

Gas: Initial open flow * MCF/d Oil: Initial open flow * Bbl/d

Final open flow * MCF/d Final open flow * Bbl/d

Time of open flow between initial and final tests Hours

Static rock pressure psig (surface pressure) after Hours

Second producing formation Pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM, PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING
OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED
GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.RECEIVED
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For: EAST RESOURCES, INC.

By:

Date:

103.02359

Treatment : Not treated

Depths = TVD

<u>Well Log :</u>	0	258	Sand and Shale
	258	276	Sand
	276	314	Shale
	314	328	Sand
	328	708	Shale
	708	718	Sand
	718	814	Shale
	814	842	Sand
	842	865	Shale
	865	928	Sand
	928	932	Shale
	932	952	Sand
	952	956	Shale
	956	966	Sand
	966	980	Shale
	980	1016	Sand
	1016	1024	Shale
	1024	1036	Sand
	1036	1520	Shale
	1520	1562	Sand
	1562	1684	Shale
	1684	1747	Sand
	1747	1787	Shale
	1787	1800	Sand
	1800	1901	Shale
	1901	1929	Sand
	1929	1974	Shale
	1974	2003	Sand
	2003	2050	Shale
	2050	2062	Sand
	2062	2145	Shale
	2145	2156	Sand
	2156	2171	Shale
	2171	2184	Sand
	2184	2210	Shale
	2210	2276	Big Lime
	2276	2496	Big Injun
	2496	3062	Shale
	3062	3085	Gordon Stray
	3085	3094	Shale
	3094	3114	Gordon
	3114	3300	Shale
	3300		TD

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Section of Oil and Gas
Well Operator's Report of Well Work

Farm name: YOHO, SEAN & ANDREW Operator Well No.: ZUE LANTZ 288
LOCATION: Elevation: 884' Quadrangle: PINE GROVE 7.5'
District: GRANT County: WETZEL
Latitude: 2,680 Feet south of 39 Deg 35 Min 0 Sec.
Longitude: 9,800 Feet west of 80 Deg 37 Min 30 Sec.

Company Address:	HG Energy PO Box 5519 Vienna, WV 26105	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Inspector:	Derek Haught				
Date Permit Issued:	07/18/2011				
Date Well Work Commenced:	01/25/2012				
Date Well Work Completed:	03/02/2012				
Verbal Plugging:					
Date Permission Granted On:					
Rotary X Cable Rig		7"	869'	869'	215 sks
Total vertical Depth (ft):	2980'				
Total Measured Depth (ft):	3222'				
Fresh Water Depth (ft):	none	4 1/2"	3113.7'	3113.7'	200 sks
Salt Water Depth (ft):	none				
Is Coal being mined in ares (Y/N)?	No				
Coal Depths (ft): x	625'-632'				
Void(s) encountered (Y/N) depth(s):	NONE				

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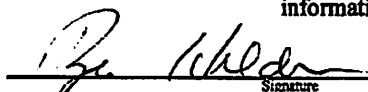
OPEN FLOW DATA

* Waterflood Producer

This well drilled directionally 3.4 ° NE a distance of 872' WV Department of Environmental Protection
Pay zone depth (ft) 2952'-2971'

Producing formation Gordon
Gas: Initial open flow * MCF/d Oil: Initial open flow * Bbl/d
Final open flow * MCF/d Final open flow * Bbl/d
Time of open flow between initial and final tests * Hours
Static rock pressure * psig (surface pressure) after * Hours
Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock pressure psig (surface pressure) after Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

7/6/12
Date

Were core samples taken? No

Were cuttings caught during drilling? No 103.02678

Were Y Electrical, N Mechanical, N or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Treatment : Treated perms 2952'-2971' w/ 250 gals 15% HCL, 307 bbls cross linked gel, and 15,000# 20/40 sand.

Well Log : All depths are measured relative to KB (8' AGL).

Shale w/ sand streaks	0	-	625
Coal	625	-	632
Shale w/ sand streaks	632	-	1124
Sand	1124	-	1150
shale	1150	-	1214
sand	1214	-	1246
shale	1246	-	1428
sand	1428	-	1450
shale	1450	-	1498
sand	1498	-	1563
shale	1563	-	1624
sand	1624	-	1694
shale	1694	-	1833
sand	1833	-	1850
shale	1850	-	1865
sand	1865	-	1875
Big Lime	1875	-	1945
Big Injun	1945	-	2255
shale	2255	-	2916
Gordon Stray	2916	-	2938
shale	2938	-	2948
Gordon	2948	-	2970
shale	2970	-	3093
sand	3093	-	3097
shale	3097	-	3222
TD	3222		

T.D. -Logger	3185	KB
T.D. -Driller	3222	KB

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State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm name: DALLISON LUMBER INC. Operator Well No.: J.U. JOLLIFFE 289

LOCATION: Elevation: 1,361' Quadrangle: PINE GROVE 7.5'
District: GRANT County: WETZEL
Latitude: 550 Feet south of 39 Deg 35 Min 0 Sec.
Longitude: 7,670 Feet west of 80 Deg 37 Min 30 Sec.

Company Address:	HG Energy PO Box 5519 Vienna, WV 26105	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Inspector:	Derek Haught				
Date Permit Issued:	07/14/2011				
Date Well Work Commenced:	01/02/2012				
Date Well Work Completed:	01/20/2012				
Verbal Plugging:					
Date Permission Granted On:					
Rotary X Cable Rig		7"	1356'	1356'	385 sks
Total vertical Depth (ft):	3570'				
Total Measured Depth (ft):	3900'				
Fresh Water Depth (ft):	none	4 1/2"	3723.6'	3723.6'	200 sks
Salt Water Depth (ft):	none				
Is Coal being mined in ares (Y/N)?	No				
Coal Depths (ft): x	1076'-1083'				
Void(s) encountered (Y/N) depth(s):	NONE				
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OPEN FLOW DATA

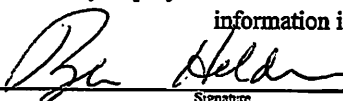
* Waterflood Producer

WV Department of
Environmental Protection

This well drilled directionally 238 ° SW a distance of 1054'.

Producing formation	Gordon	Pay zone depth (ft)	3506'-3514'
Gas: Initial open flow	* MCF/d	Oil: Initial open flow	* Bbl/d
Final open flow	* MCF/d	Final open flow	* Bbl/d
Time of open flow between initial and final tests	*	Hours	
Static rock pressure	* psig (surface pressure)	after	* Hours
Second producing formation		Pay zone depth (ft)	
Gas: Initial open flow	MCF/d	Oil: Initial open flow	Bbl/d
Final open flow	MCF/d	Final open flow	Bbl/d
Time of open flow between initial and final tests		Hours	
Static rock pressure	psig (surface pressure)	after	Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

11/19/12
Date

Were cuttings caught during drilling? No

Were $\frac{Y}{Y/N}$ Electrical, $\frac{N}{Y/N}$ Mechanical, $\frac{N}{Y/N}$ or Geophysical logs recorded on this well?

Were $\frac{Y}{Y/N}$ Electrical, $\frac{N}{Y/N}$ Mechanical, $\frac{N}{Y/N}$ or Geophysical logs recorded on this well?

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Treatment: Treated perms 3506'-3514' and 3516'-3527' w/ 300 gals 15% HCL, 264 bbls cross linked gel, and 8,500# 20/40 sand.

Well Log : All depths are measured relative to KB (8' AGL).

Shale w/ sand streaks	0	-	1076
Coal	1076	-	1083
Shale w/ sand streaks	1083	-	1638
sand	1638	-	1647
shale	1647	-	1720
sand	1720	-	1763
shale	1763	-	1794
sand	1794	-	1812
shale	1812	-	1881
sand	1881	-	1891
shale	1891	-	1924
sand	1924	-	1981
shale	1981	-	2018
sand	2018	-	2064
shale	2064	-	2165
sand	2165	-	2176
shale	2176	-	2256
sand	2256	-	2266
shale	2266	-	2332
sand	2332	-	2348
shale	2348	-	2366
sand	2366	-	2377
Big Lime	2377	-	2514
Big Injun	2514	-	2794
shale	2794	-	3470
Gordon Stray	3470	-	3495
shale	3495	-	3502
Gordon	3502	-	3530
shale	3530	-	3542
sand	3542	-	3546
shale	3546	-	3900
TD	3900		

T.D. -Logger 3855 KB

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